Center of Information Technologies NELIAN

USER MANUAL

Resonance-Polarization Therapy Module DIANEL-RPT

Medical diagnostics and therapy system using bioactive points and zones

TU 9442-010-14301633-2006

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Basic Concepts

Resonant-polarization therapy or therapy of electrostatic field is the continuation of franklinization method.

Mechanism of action: through the tissue fluids there is development of effective polarization of tissues, the potential of cell membrane is being restored, kind of erythrocyte recharging takes place that leads to the quick resolution of clots and blood bundles, reduction of tissue hypoxia, and recovery of vegetative nerve ganglion functions.

Franklinization is a medical treatment practice where the operating factor is high density electrostatic field (up to 50 kV), as well as the by-produced ozone air ions, nitrogen dioxide, and other products of air ionization. There are three factors influencing the human organism being franklinized: high density electric field, air ions, and ozone and nitrogen oxides – the chemical agents produced in the silent electrical charge.

Franklinization is the oldest practice of electricity use in medicine.

There is general and local franklinization.

General franklinization improves metabolic processes in an organism. The defective tonus of the vegetative part of the nervous system is restored. Franklinization leads to lower blood coagulability, reduced erythrocyte sedimentation reaction, and evidence of the bactericidal effect. In response to the general franklinization the general organism reactions caused by dermal visceral reflexes appear including improvement of brain blood circulation, normalization of excitative and inhibitory processes in cerebral cortex, CNS (central nervous system), reduction of the tonus of the vegetative nervous system, and disappearance of sleep disorders. There is also evidence of the normalized circulatory dynamics indicators, hypertension reduction, improvement of respiratory functions, reduction of physical and mental lassitude, improved performance.

Local franklinization is the impact of the silent discharge on a small part of a human body. It is used for the slow healing contaminated wounds. The local franklinization reduces the receptor sensibility, has analgetic and antipruritic effects, restores the interfacial sensitivity types, and stimulates regeneration of damaged cells.

Local franklinization procedures may be conducted along with the

use of pharmaceutical substances (aloe extract, cevitamic acid solution, etc.). This method is called **aeroelectrophoresis**.

Aeroionotherapy (air ionization) — is a treatment method using ionized air. Air ions lose their electrical charge once they approach the skin and mucous tunic. This charge is given to the tissues, blood cells, and the air ions become the highly active atoms and molecules. Interacting with molecular membrane complexes and interstitial electrolytes the air ions generate different products of electrical exchange and biologically active substances.

The negative airionotherapy increases the activity of ciliated epithelium of the trachea, pulmonary ventilation, increases oxygen consumption and carbon dioxide emission, stimulates respiratory enzymes, and intensifies the tissue oxidation-reduction processes. Under the influence of the negative air ions there is an increase of haemoglobin and erythrocyte number, slow down of erythrocyte sedimentation reaction and blood coagulability, change in blood pH into the alkaline side. The arterial pressure is reduced under the influence of the negative air ions, and the heart rate is slowed down. The influence of the negative air ions changes the functional state of CNS, increases the reflex excitability of the nerve cells and muscles, and strengthens the inhibitory processes in the brain cortex. The negative aeroionotherapy improves the general state, normalizers the sleep, increases mental and physical performance. Negative aeroionotherapy results in improved resistance to various environmental impacts.

The positive air ions generally cause the opposite changes in the body.

1. PRODUCT DESIGNATION

The **DIANEL-RPT** module (hereinafter referred to as the "module") is used to conduct resonant-polarization therapy. The module **DIANEL-RPT** is an **updated** analogue of the AF-3-1 device for franklinization and air ionization.

The **DIANEL-RPT** module is a part of Medical diagnostics and therapy complex using bioactive points and zones "DIANEL" (hereinafter referred to as DIANEL complex) – TS 9442-010-14301633-2006.

The DIANEL complex consists of separate stand-alone modules (and/or its modifications) which are used for ***multimodality diagnostics and therapy:***

- diagnostic modules of the DIANEL complex:
DIANEL-VRT — is a module for the vegetative resonant testing,
DIANEL-VRT-OS — is a module for the vegetative resonant testing with the advanced functionality.
- therapeutic modules of the DIANEL complex:
DIANEL-FRT — is a module for frequency-resonant therapy,
DIANEL-BRT — is a module for bioresonant therapy,
DIANEL-RPT — is a module for resonant polarization therapy,
DIANEL-BN — is a module for bionormalization (combined therapy),
DIANEL-PS — is a power supply unit.

The module can be used for the following types of therapy:
main application:
- resonant-polarization therapy (RPT);
additional applications:
- general and local **franklinization**;
- group or personal **air ionization**;
- aeroelectrophoresis (air ionphoresis).

The operating factor module-induced therapy is the permanent electric field of high intensity — **up to 30 kV** (with a small modulation coefficient) as well as the products of the air ionization. Exposure type — electrostatic field.

In the course of the module-induced therapy a person is affected by

the electrostatic field of high intensity, air ions, and chemical agents. They cause direct as well as complicated nerve-reflective effects. Their direct contact with the skin, mucous tunic of respiratory tracts leads to the generation of weak direct current within the tissues and production of the active substances in them. In turn it causes irritation of skin and mucous tunic receptors. In return the capillary vascular network is engaged. The local changes of the capillary circulation and thermal regulation contribute to the increase of skin metabolism, increase of oxygen consumption, stimulation of healing, hematogenesis, and cell regeneration.

Mechanism of action: through the tissue fluids there is development of effective polarization of tissues, the potential of cell membrane is being restored, kind of erythrocyte recharging takes place that leads to the quick resolution of clots and blood bundles, reduction of tissue hypoxia, and recovery of vegetative nerve ganglion functions.

The use of the module elevates the severity of pathological process, decreases the size of the lesion zone, and contributes to faster patient rehabilitation.

The module-induced therapy has a poly-therapeutic action (by treating a single disease the comorbid conditions are addressed as well).

The module **DIANEL-RPT** is designated to be used in research and rehabilitation institutes and centres; in emergency centres and teams including mobile ones; in places of emergency; in epidemiologically hazardous zones; in other circumstances requiring the use of the complex or its parts.

The device can be used outpatiently and in clinic.

The DIANEL complex is designated to be used by **the qualified specialists** (by doctors trained correspondingly on the subject of electropuncture diagnostics and therapy including the vegetative resonant testing, frequency-resonant therapy (structured-resonance therapy), bioresonant therapy, resonant polarization therapy (franklinization, air ion therapy)) and shall not be used for self-healing without the professional consultation, indication and supervision. Non-specialist using the DIANEL complex is liable to any results of its use.

2.SPECIFICATIONS

2.1. Electrical safety class II, BF type " ".

2.2. The module power supply is done off the module **DIANEL-PS** (DIANEL-PS-RPT), the **specialized** outside power unit with the voltage of 12 V

2.3 Module power consumption does not exceed 20 VA.

2.4 Module dimensions are 260 mm x 180 mm x 60 mm.

2.5 Module weight (excluding accessories) does not exceed 2.0 kg.

2.6. Module life time exceeds 5 years with mean operation usage of 8 hours per day.

3. COMPONENTS

On the front panel of the module there are controls and indicators as well as the connection slots for the accessories (see Fig. 1). On the rear panel of the module there are the DIANEL-PS (special power supply module) connection socket and on/off-switch of the module.

To use the module for the therapy the corresponding accessories are connected to the module (see Fig. 3).

The module is designed as a device with the DIANEL-PS module, the special external power supply unit with the output voltage of 12 V

For convenience and in order to exclude the galvanic contact with the module and its accessories, the device is operated with the **remote control** (see Fig. 2).

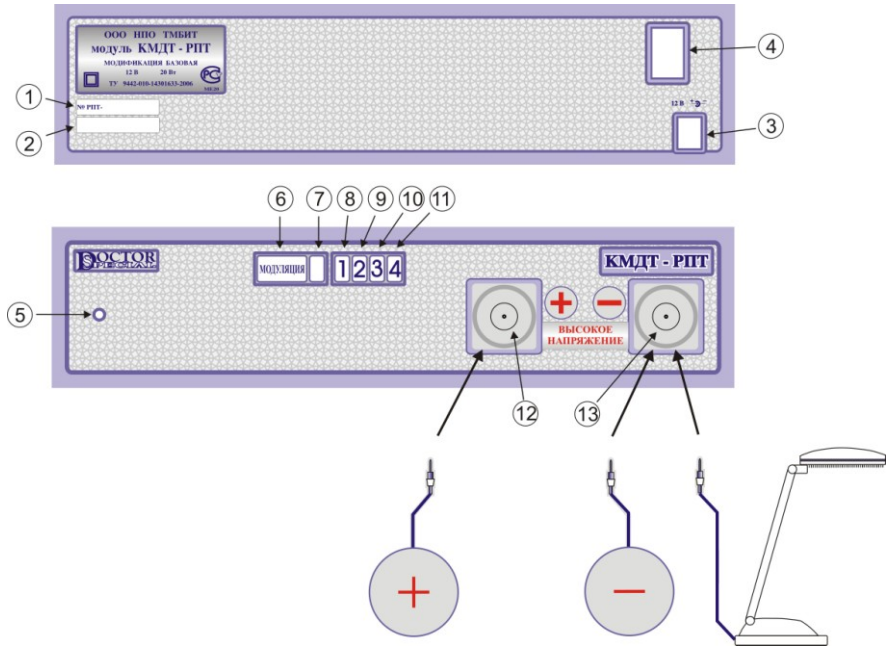
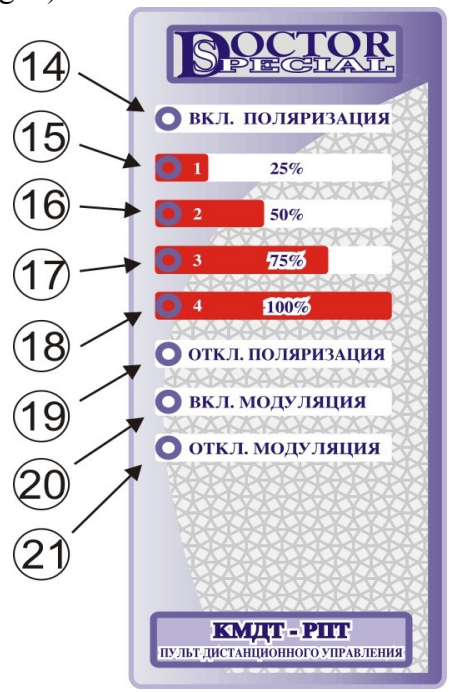


Fig. 1. Controls and indication of the DIANEL-RPT module

Figure 1 shows the controls and indications of the module, where:

1. serial number;
2. production date;
3. DIANEL-PS (special power supply module) connection socket slot (DIANEL-PS-RPT);
4. power on/off-switch;
5. power on/off indicator;
6. modulation on/off indicator, **“МОДУЛЯЦИЯ”**;
7. IR distance control receiver;
8. On-indicator of the 25% output polarization voltage — level **“1”**;
9. On-indicator of the 50% output polarization voltage—level **“2”**;
10. On-indicator of the 75% output polarization voltage—level **“3”**;
11. On-indicator of the 100% output polarization voltage—level **“4”**;
12. Accessories connection **“+”** out socket —“Emitters”.
13. Accessories connection **“-”** out socket —“Emitters”.

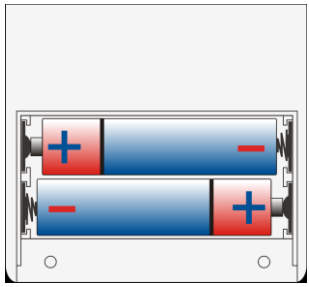
Control buttons and indicators are mounted on the remote control (see Fig. 2). **Remote control buttons:**



14. Polarization on-button;
15. On-button of the 25% output polarization voltage;
16. On-button of the 50% output polarization voltage;
17. On-button of the 75% output polarization voltage;
18. On-button for 100% of output polarization voltage;
19. Polarization off-button;
20. Modulation on-button;
21. Modulation off-button.

Fig. 2. Controls and indicators of the DIANEL-RPT module remote control

Battery replacement for the remote control



The remote control uses two AA batteries 1.5 V each.

IT IS NOT ALLOWED: use batteries of other types.

While putting or replacing batteries it is necessary:

– to strictly observe the polarities (+/-);

– to use only high quality AA batteries;

– to use identic batteries (of the same type and same producer).

Batteries replacement order:

1) put the remote control with its facial down; gently slip the battery compartment cover following the direction of the arrow;

2) take out the used batteries without touching the plate contacts;

3) observing polarity (+/-) install new batteries;

4) carefully control the position of batteries in the corresponding compartment (there shall be provided the appropriate plus contact of the batteries with contact plates). If the batteries are tightly put in the battery compartment the contact may be faulty;

5) close (slide back) the cover of battery compartment.

It is necessary to change batteries **on time** depending on their quality and use intensity.

If there are pauses in use more than 3 days it is necessary to **take out** the batteries from the battery compartment to avoid remote control damage due to the leakage of electrolyte.

IT IS PROHIBITED: to store the used (discharged) batteries is in battery compartment of the remote control.

3.1 Module accessories

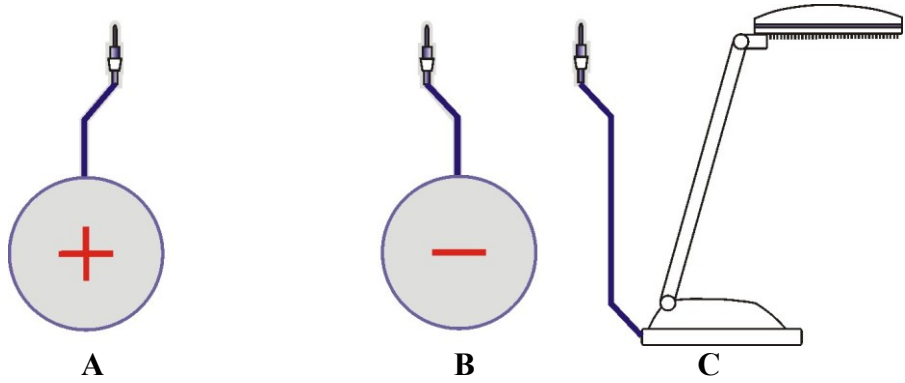


Fig. 3. DIANEL-RPT module accessories

A —"+" polarizing plate (insulated electrode).
The positive polarizing plate is connected to the "+" out socket (12) of the module.

B — "-" polarizing plate (insulated electrode).
The negative polarizing place is connected to the"-" out socket (13) of the module.

C — "-" specialized (needle-type) electrode (non-insulated electrode). It is is connected to the "-" out socket (13) of the module.

A and B accessories are used in resonant-polarization therapy.
A and C accessories are used in general franklinization.
A and C accessories are used in local franklinization.
A and C accessories are used in air ionization.
A and C accessories are used in aeroelectrophoresis (air ionphoresis) with pharmaceutical substances (local).

4. PREPARATION TO USE

Before operation, please, read carefully the passport and this user manual.

The preparation of the module includes its de-preservation, preliminary treatment of the case and the working surface of the electrodes and the accessories with 3% solution of hydrogen peroxide with the addition of 0.5% solution of the detergent.

4.1. Connection

WARNING:
Connect Accessories only when the module is off

Connect the corresponding accessories (see Section 3.1).

While connecting and the following operation of the module the cables must not be bent, twisted, or broken without the significant load on the connections.

The module is powered from DIANEL-PS module, the **special** external power supply unit with the output voltage of 12 V. The type of the socket must correspond to the plug type of the DIANEL-PS module (special power supply unit). Connect the DIANEL-PS module to the main module using the power supply socket (3) (see Fig. 1).

WARNING:
Use only the genuine DIANEL-PS special power unit for the power supply of the main unit.

The electric socket must be **at least 1.5 m away from the patient.** This is not recommended to connect the module to the power line along with the high power consumption devices.

After you finish working with the module unplug the power supply unit from the power line.

4.2 On/off switching of the module

To switch on the module press power on/off button (4) on the rear panel of the module (Fig. 1). Indicator (5) shows the status of the module. If the indicators are not on instantly after the module is switched on check whether the power supply unit is connected correctly.

To switch off the module press power on/off button (4) on the rear panel of the module.

5. OPERATION

Before operation, please, read carefully the passport and the User manual of the device.

The strict following all the recommendations stated in the Passport and the User manual is required for the effective operation and safekeeping of the module during its extended use.

Before the use of the module **read carefully the indications and contra indications for its use** and, if there is such a necessity, consult medical specialists.

The DIANEL system is designated to be used by **the qualified specialists** and and shall not be used for self-healing without the professional consultation, indication and supervision. Non-specialist using the DIANEL complex is liable to any results of its use.

It is recommended to conduct any kind of therapy with due regard to diagnostics (testing) results with regular monitoring of the health change dynamics (using the diagnostic modules **DIANEL-BRT** or **DIANEL-BRT-OS)** with due regard to the indications and contraindications for its use, state of the body defences and disease stage.

5.1 Safety precautions and restrictions

The following are the general recommendations which if followed provide the safety of operation of the device and safekeeping of the module within its extended use and life time:

There is no need in grounding of the module because the electrical safety is provided by the design features of the module.

It is necessary to protect the module of dust, impacts, heat exposure from the near situated hot objects and the open fire.

Do not disinfect the module case and any accessories if the module is switched on.

Do not use abrasive materials (including grinding powders) or chemical agents (for example: solvents, oil, etc.) for the cleaning and disinfection.

Do not submerge the module into the cleaning fluids (even partially). In case of staining only cleaning of the module surface is allowed.

Keep away from moisture. In case of moisture ingress do not switch on the module until the complete natural evaporation of moisture.

Do not use the module in bathrooms, shower rooms and in rooms with the high humidity.

Do not disinfect the electrodes (accessories) in boiling water.

If the module or the remote control is taken from the cold place there can be a water film (condensate) on the electrical components of the module. Wait until they warm up to the ambient temperature.

5.2 Controls and indicators

Controls and indicators are located on the front panel of the module (see Fig. 1) and on the remote control (see Fig. 2).

The indicator light (5) on the front panel of the module shows that the module is switched on.

The button of the remote control **“ВКЛ ПОЛЯРИЗАЦИЯ”** (14) enables high voltage (polarization voltage), and the button (19) disables polarization voltage.

The buttons of the remote control (15-18) contain 4 levels of the polarization voltage with the increment of 25% or 7.5 kV. If a certain level is activated the corresponding indicator on the front panel of the module will be on.

The remote control turns on/off and regulates **4 levels of the output voltage**:
level "1" corresponds to 25% of the output polarization voltage (up to 7.5 kV);
level "2" corresponds to 50% of the output polarization voltage (up to 15 kV);
level "3" corresponds to 75% of the output polarization voltage (up to 22.5 kV);
level "4" corresponds to 100% of the output polarization voltage (up to 30 kV);

The buttons of the remote control **"ВКЛ МОДУЛЯЦИЯ"** (20) and **"ОТКЛ МОДУЛЯЦИЯ"** (21) enable (**"ВКЛ МОДУЛЯЦИЯ"**) and disable (**"ОТКЛ МОДУЛЯЦИЯ"**) the modulation of the polarization voltage. If the modulation is enabled the indicator light (6) of the module is on, if modulation is disabled the indicator is off.

5.3 Operation procedure

Procedures must be conducted with a patient placed on a wooden chair or wooden couch. Before a procedure it is recommended to take away all the metal objects from hair, ears, pockets because they can cause the deformation of the electric field and the unwanted increase of the exposure in the undesirable places.

Once a procedure is over the patient must wait 5-10 minutes before he/she can stand up.

The duration, dosage and the number of procedures are to be determined by the specialist.

The methods of procedures **are the same** as the standard methods of franklinization, air ionization, aeroelectrophoresis (air ionphoresis) using the same device.

Instructions for therapy duration are made as recommendation and depends on the changes that take place during the therapy.

FOLLOW STRICTLY THE SEQUENCE of actions during a procedure:

- connect corresponding accessories to the "+" (12) and "-" (13) sockets of the module;
- let a patient make himself/herself comfortable on a chair/couch;
- install and safely fix the corresponding accessories (A, B, C);
- turn the power supply on (4), it is recommended to wait 10-20 second before the next (repeated) turning on.

standing **at least 1.5 meters from a patient** do the following using the remote control:
- turn the polarization voltage on (14),
- choose the level of the output polarization voltage (15-18),
- turn the modulation on, if necessary (20).

after the procedure:
- turn the polarization off (18);
- turn the modulation off, if necessary (21).
- turn off the module power (4);
- unplug the power supply unit (DIANEL-PS module);
- take away the corresponding accessories away from the patient.

While storing the accessories may remain connected to the module.

IT IS NOT ALLOWED:

- to a patient: to stand up during a procedure and touch any grounded metal constructions with any part of the body (for example, radiators, water pipes, etc.) or the body of another person.

- to a specialist: it is prohibited to closely approach and touch a patient and/or the module and its accessories during the procedure and after it for 5-10 minutes.

Various types of treatment and therapy may be applied only under the supervision of a doctor to exclude their interference **with the obligatorily considered contraindications**. It is not allowed to treat a person without

supervision, especially by combining several types of treatment.

The most complete vision of health state for the more detailed treatment approach is provided by the computer **diagnostics by vegetative resonant testing method** that allows to determine or specify causes of a disorder. The regular repeated diagnostics allows the doctor to reliably follow the progress of treatment and modify the therapy by choosing patient-specific types and methods of the therapy that have the maximum efficiency.

While choosing the specific methods of the therapy it is necessary to consider the functional state of the whole organism and its systems based on the health state.

The type and duration of procedures are to be determined by a specialist.

The procedures must be conducted **under the supervision of a specialist** that tests the integrative indicators and, if necessary, changes the level and duration of exposure in the course of treatment.

5.3.1. General franklinization

Before therapy read carefully Section 5.3.

For the general franklinization both accessories A (+) and C (-) are used.

For franklinization patient with his/her clothes on is seated on a wooden chair.

The special electrode C (-) is placed 10-15 cm above the head of a patient, and the polarizing plate is placed on the floor under the patient's hips.

The Field density (voltage) is set within the range of 22.5-30 kV. (level 3-4)

Procedure duration is about 10-15 minutes. Procedures are conducted or once in two days or daily. The treatment course consists of 10-15 procedures.

During a procedure patients feel a pleasant fresh wind over the head which is caused by air ion movement.

5.3.2 Air ionization

Before therapy read carefully Section 5.3.

For the air ionization the accessory C (-) is used.

For individually conducted air ionization the special electrode C (-) is placed 10-20 cm aside the patient.

For air ionization in group the special electrode C (-) is installed in room where the procedure takes place. A patient must be 1 meter away from the electrode.

The Field density (voltage) is set within the range of 30 kV (level 4).

Procedure duration is about 10-30 minutes.

Procedure duration is about 10-15 minutes. Procedures are conducted or once in two days or daily. The treatment course consists of 10-15 procedures.

Patients' feelings during the procedure include: smooth wind blowing, mild noise and cracking, rising hair, and ozone smell.

The therapy must be conducted in a ventilated room with the comfortable air temperature of at least +18 centigrade. It is highly desired to avoid much dust and high humidity in the room.

5.3.3 Local franklinization

Before therapy read carefully Section 5.3.

The procedure is usually conducted during the bandaging. For local franklinization the electrode of the corresponding form and size is put either above the lesion area (wound, ulcer) or above the corresponding reflexogenic area (collar area, lumbar zone, mammary glands, etc.). Depending on the place of exposure a patient stays either lying on a wooden couch or sitting on a chair.

The procedure is conducted with the naked part of the body being franklinized. The wound or ulcer skin surface must be cleaned from crust, pus, rejected masses, treated with disinfecting solution, and dried with a sterile cloth.

For the local franklinization the accessories A (+) and C (-) are used.

The special electrode C (-) is fixed 5-7 cm off the skin surface above

the exposed naked part of patient's body, so that a patient will feel smooth blow of the wind. The polarizing plate A (+) is placed at the opposite side of the patient's body (see Fig. 4).

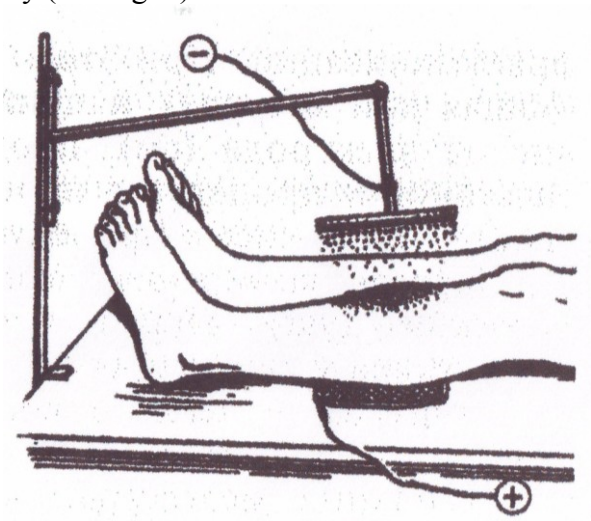


Fig. 4. The example of accessories location for DIANEL-RPT.

The exposure is done with the field density (voltage) of 7.5-15 kV (level 1-2).

The procedure is usually performed during bandaging (in 2-3 days), it lasts 10-15 minutes, and the whole treatment course includes 10-15 exposures.

5.3.4 Aeroelectrophoresis (air ionphoresis)

Before therapy read carefully Sections 5.3 and 5.3.3.

Exposure of wounds, ulcers, and burned surfaces to electrostatic field can be performed along with the use of pharmaceutical substance that is put on a sterile cheesecloth. This method is called **aeroelectrophoresis (air ionphoresis)**. **The pharmaceutical substances must have the same charge polarity as that fed to the electrode** that is above the pathological nidus.

The same pharmaceutical substances are used for both electrophoresis and aeroelectrophoresis.

For the procedure the accessories A (+) and C (-) are used.

The special electrode C (-) is fixed 5-7 cm off the skin surface above the exposed naked part of patient's body, so that a patient will feel smooth blow of the wind. The polarizing plate A (+) is placed at the opposite side of the patient's body (see Fig. 4).

The exposure is done with the field density (voltage) of 7.5-15 kV. (level 1-2).

The procedure is usually performed during bandaging (in 1-3 days), it lasts 10-15 minutes, and the whole treatment course includes 10-15 exposures.

5.3.5 Resonant-polarization therapy (RPT) procedure

Before therapy read carefully Sections 5.3 and 5.3.3.

For the local procedures the voltage can be regulated within all the four levels each with the increment of 7.5 kV (up to 30 kV).

To increase exposure efficiency you may turn on the modulation.

For the procedure the accessories A (+) and B (-) are used.

It is very important to observe the principle of the correct accessories' (electrodes') location: the positive A (+) — to the proximal limb part, along its rear surface; the negative B (-) — to the foot (hand). That is, the positive electrode is always positioned higher and the negative electrode is always positioned lower.

The exposure voltage is regulated based on patients' subjective sensations.

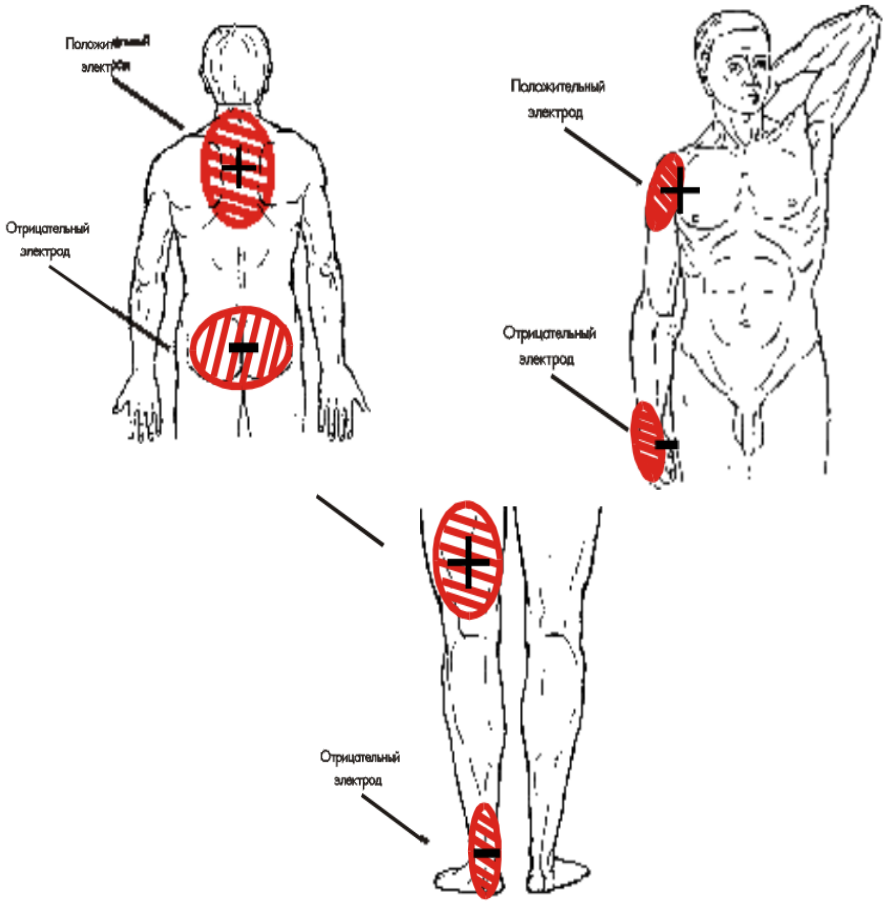


Fig. 5. The example of the the polarizing plates location for DIANEL-RPT.

Locate the polarizing plates A (+) and B (-) according to the Fig. 5.

The exposure is done with the field density (voltage) ranging from 7.5 kV to 22.5 kV. (level 1-3)

The procedure is usually performed during bandaging (in 2-3 days), it lasts 10-15 minutes, and the whole treatment course includes 10-15 exposures.

6. GENERAL INDICATIONS AND CONTRA INDICATIONS

6.1. Indications and contra indications to resonant-polarization therapy are the same as those to franklinization.

The patients do not experience any unpleasant feelings during the procedure. Sometimes there is slight pricking or vibration, the feeling of mild pushes across the exposed area.

6.2. Indications and contraindications to FRANKLINIZATION (air ionization, air ionphoresis)

General indications:

- CNS functional disorders,
- initial stage of cerebral vessels atherosclerosis,
- physical and mental strain,
- sleep disorders,
- migraine,
- hypertension, I-II stage,
- bronchial asthma,
- trophic ulcers,
- persistent wounds,
- burnt surfaces and burn wounds,
- itching,
- paresthesia,
- hyperesthesia.

The local franklinization is indicated for a patient with itching, slowly healing wounds and neurological pains, burns, paresthesia, hyperesthesia.

General contraindications:

- malignant neoplasms,
- systemic blood disorders,
- CNS organic disease,
- severe atherosclerosis of coronary and cerebral vessels,
- pregnancy,
- depressions,
- conditions after myocardial infarction;
- acute cerebrovascular disorders;
- acute pneumonia;
- severe pulmonary emphysema;
- bronchial asthma with continuous and severe attacks;
-acute rheumatoid arthritis ;
- active progressive pulmonary tuberculosis,
- quick-evolving cachexia,
- severe destructive ozena,
- heart failure, II and III stage;
- hypersensitivity to ionized air;
- individual intolerance,
- age restrictions.

Hypersensitivity to electric current cam be referred to the relative contraindications .

Side effects:

By disease recrudescence it is required to stop therapy and consult the doctor. The recurrent procedures are recommended once the cause for recrudescence is revealed.

7. MAINTENANCE

The module does not need any additional calibration or maintenance.

WARNING: all the maintenance operations must be done when the module is off.

IT IS NOT ALLOWED:

- to open and repair the module and its accessories;
- to use the module for purposes other than intended or not according to the

present User manual and the module passport.

Warranty package is valid if the module had been used according to the Passport, User manual, and Application recommendations; it had not been updated, repaired, disassembled by unauthorized specialists; if it had not been damaged as a result of inappropriate use. and if the whole delivery set (the main module and all the accessories) shall is full) and the seal is not removed.

The module cannot be treated as defective or damaged if a patient has a disease that is in the list of contraindications

If there are defects during the warranty period time not arising due to the customer's fault you can contact the manufacturer

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